Pt. 10

1644

RAW SEQUENCE LISTING DATE: 02/13/2001
PATENT APPLICATION: US/09/484,577A TIME: 14:31:57

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

<110> APPLICANT: Gordon, Lynn K.
Goodglick, Lee
Goldman, Melissa
<120> TITLE OF INVENTION: NOVEL GENES AND POLYPEPTIDES FOR THE DIAGNOSIS OF GIANT CELL ARTERITIS
<130> FILE REFERENCE: 07419-029001
<140> CURRENT APPLICATION NUMBER: 09/484,577A
<141> CURRENT FILING DATE: 2000-01-18
<160> NUMBER OF SEQ ID NOS: 98
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 682
<212> TYPE: DNA
<213> ORGANISM: Homosapiens
<220> FEATURE:
<223> OTHER INFORMATION: artificially generated nucleic acid
<400> SEQUENCE: 1

```
gatccccgct ttcgcgggga tgacagcggt actcaattca cgcgcagcga tgccagcgaa      60
ctaaacggag gatctcacga acatccgctc caaccccgac accacgctcc ccgccgtcac     120
gacaggctcg ctgccctcct cgcgcaagtt ctttgcaatc cctgaggccg cgcccgacat     180
ccgcgttccc ttgcgcgaga tcatcctgtc cgagggcgcc ggcgagccga acctgccggt     240
ctatgacacc tcgggccccc acaccgatcc ggccgtgacg atcgacgtca acagcggcct     300
gccgcgcaat cgcctcgcct gggtcaagga acgcggcggc gtcgaggaat atcaggccgc     360
accatcaagc cggaggacaa cggcaatgtc ggcgcatccc acgccgccaa ggcgttcacc     420
ggcaccacaa gccgctgcgc ggctcgacgg cacaagatca cccactcgag ttcgccgcgc     480
cggcattata ccaaggagat gatctacgtc gccgagcgtg agaatcttgg cgcaagcagc     540
agctgagcgc gccgaggccg gctgccgacg gaagagtttt ggcgccgcgg tgccggctta     600
ttacgccgga atttgtcgca agagatcgcg cggcggccat tatttccttt aaaattaaca     660
ttgccgagct tgaaccgatg aa                                              682
```

<210> SEQ ID NO: 2
<211> LENGTH: 92
<212> TYPE: PRT
<213> ORGANISM: Homosapiens
<400> SEQUENCE: 2

```
Leu Pro Ala Val Thr Thr Gly Ser Leu Pro Ser Ser Arg Lys Phe Phe
 1               5                  10                  15
Ala Ile Pro Glu Ala Ala Pro Asp Ile Arg Val Pro Leu Arg Glu Ile
            20                  25                  30
Ile Leu Ser Glu Gly Ala Gly Glu Pro Asn Leu Pro Val Tyr Asp Thr
        35                  40                  45
Ser Gly Pro Tyr Thr Asp Pro Ala Val Thr Ile Asp Val Asn Ser Gly
    50                  55                  60
Leu Pro Arg Asn Arg Leu Ala Trp Val Lys Glu Arg Gly Gly Val Glu
65                  70                  75                  80
Glu Tyr Gln Ala Ala Pro Ser Ser Arg Arg Thr Thr
                85                  90
```

<210> SEQ ID NO: 3

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PATENT APPLICATION: US/09/484,577A TIME: 14:31:57

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

<211> LENGTH: 501
<212> TYPE: DNA
<213> ORGANISM: Homosapiens
<220> FEATURE:
<223> OTHER INFORMATION: Synthetically generated nucleic acid
<400> SEQUENCE: 3

actctccagc ctctcaccga ggatgaagtc ggctcgtgaa gtggttgcgg tcgggggcaa 60
aacccgggac gagctggcct tcctgccggc cgccctcgaa attgtcgaga cgccgccatc 120
tcccaccgcg agactcacgg ccgccttgct tgctgccttg ttctactgcg ccgtggcgtg 180
ggcgggtctc ggcaggatcg acatcgttgc ttctgcatcc agaaagatcg tgccgggcga 240
ccgtgtaaag ctggttcagc cgctcgaggt cggcgtggtg cgggccactc atgtccgcga 300
tggccaaacc gtcaaggccg gcgagattct gatcgagctg gatccattcg cgggtggtgt 360
ggatgttgcg ccccgtcaga ggtccatcac ggtgtcggcg ccccacggat cgccacacca 420
tcttgtcgac ctttcttcac cgacgagtca ccgccgagtt gccgatattg cgtgatctta 480
tcagaatgcg gcgatgatca t 501

<210> SEQ ID NO: 4
<211> LENGTH: 124
<212> TYPE: PRT
<213> ORGANISM: Homosapiens
<400> SEQUENCE: 4

Leu Ser Ser Leu Ser Pro Arg Met Lys Ser Ala Arg Glu Val Val Ala
1 5 10 15
Val Gly Gly Lys Thr Arg Asp Glu Leu Ala Phe Leu Pro Ala Ala Leu
20 25 30
Glu Ile Val Glu Thr Pro Pro Ser Pro Thr Ala Arg Leu Thr Ala Ala
35 40 45
Leu Leu Ala Ala Leu Phe Tyr Cys Ala Val Ala Trp Ala Gly Leu Gly
50 55 60
Arg Ile Asp Ile Val Ala Ser Ala Ser Arg Lys Ile Val Pro Gly Asp
65 70 75 80
Arg Val Lys Leu Val Gln Pro Leu Glu Val Gly Val Val Arg Ala Thr
85 90 95
His Val Arg Asp Gly Gln Thr Val Lys Ala Gly Glu Ile Leu Ile Glu
100 105 110
Leu Asp Pro Phe Ala Gly Gly Val Asp Val Ala Thr
115 120

<210> SEQ ID NO: 5
<211> LENGTH: 747
<212> TYPE: DNA
<213> ORGANISM: Homosapiens
<220> FEATURE:
<223> OTHER INFORMATION: Artificially generated nucleic acid
<400> SEQUENCE: 5

accgacgtcg actatccatg aacggatccc tgcaacgaca tcgtgcgtac ggcctatgaa 60
gcgctcgccg ccgtgctcgg tggcacgcag tcgctccaca ccaactcgtt cgacgaggcg 120
atcgcgctgc cgattgactt ctccgcccgg atcgcccgca acaccagctg atccagcagc 180
acgagacaga cgtcacggac gcggtcgaca ctctggcggg gtcctactac gtggagcgcc 240
tgacggatga cctcgccaag cgggcctggg agctgatgga agaggtcgag aagatgggtg 300
gcatggcgca ggcgatcgcg accggttggc cgaagcgcct gatcgagcaa tctgcgacgc 360

RAW SEQUENCE LISTING DATE: 02/13/2001
PATENT APPLICATION: US/09/484,577A TIME: 14:31:57

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

```
119 aaaagcaggc cgcgatcgat cgcggcgatc aggtgatcgt gggcgtgaac cgctaccggc     420
120 ccgaacagga gcaaccgatc gacattattg agatcgacaa ctcgacggtt cgggcctccc     480
121 agatccggtg tctcgccgaa atcgaaaagg cgcgtgattc aaggaaggtt gagtccgcgc     540
122 tcggggagct ggcgtgtatt gcccgcacgg gtgagggaaa tctgctggct gcagcgaccg     600
123 agcccgctcg cgcgcgggct accgtcgggg agatgtccga cgccatgcgg caagcattcg     660
124 gcgaccacga ggcggtgccg gaggtagtgt cggacgttta cggccgtgcc tatggcacgg     720
125 atccgttcat ggatagtcga cgtcggt                                        747
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 48
129 <212> TYPE: PRT
130 <213> ORGANISM: Homosapiens
132 <400> SEQUENCE: 6
133 Asp Pro Cys Asn Asp Ile Val Arg Thr Ala Tyr Glu Ala Leu Ala Ala
134  1               5                  10                  15
135 Val Leu Gly Gly Thr Gln Ser Leu His Thr Asn Ser Phe Asp Glu Ala
136             20                  25                  30
137 Ile Ala Leu Pro Ile Asp Phe Ser Ala Arg Ile Ala Arg Asn Thr Ser
138         35                  40                  45
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 301
142 <212> TYPE: DNA
143 <213> ORGANISM: Homosapiens
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Synthetically generated nucleic acid
148 <400> SEQUENCE: 7
149 actctccagc ctctcaccga ggatcatcga cgacattaag cagctggccg acaacggcgt      60
150 gcgcgaattc acgctgatcg gacagaatgt caacgcctac cacggcggag ggcccgacgg     120
151 ccgcgtctgg ccgctcggca aattgctgca gcgactcgcg gacattccag gcgtcatgcg     180
152 gctgcgttat tcgatcagcc atccgcgcga cgtcgacgac agcctgatcg ccgcgcatcg     240
153 cgatttgccc ggactgatgc cgttcgtgca cctgccggtg caatcggggg cggaccggat     300
154 c                                                                    301
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 91
158 <212> TYPE: PRT
159 <213> ORGANISM: Homosapiens
161 <400> SEQUENCE: 8
162 Ile Ile Asp Asp Ile Lys Gln Leu Ala Asp Asn Gly Val Arg Glu Phe
163  1               5                  10                  15
164 Thr Leu Ile Gly Gln Asn Val Asn Ala Tyr His Gly Gly Gly Pro Asp
165             20                  25                  30
166 Gly Arg Val Trp Pro Leu Gly Lys Leu Leu Gln Arg Leu Ala Asp Ile
167         35                  40                  45
168 Pro Gly Val Met Arg Leu Arg Tyr Ser Ile Ser His Pro Arg Asp Val
169     50                  55                  60
170 Asp Asp Ser Leu Ile Ala Ala His Arg Asp Leu Pro Gly Leu Met Pro
171 65                  70                  75                  80
172 Phe Val His Leu Pro Val Gln Ser Gly Ala Asp
173                 85                  90
175 <210> SEQ ID NO: 9
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RAW SEQUENCE LISTING DATE: 02/13/2001
PATENT APPLICATION: US/09/484,577A TIME: 14:31:57

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

176 <211> LENGTH: 620
177 <212> TYPE: DNA
178 <213> ORGANISM: Homosapiens
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (0)...(0)
183 <223> OTHER INFORMATION: N=A,T,C or G
185 <400> SEQUENCE: 9

W--> 186 actctccanc ctctcaccga ggatcagaat aggtgaagag cgaagacacc gagaacgtct 60
187 ggccttgaac ggacagcgtg cttgagttgg tcggggtcac caccggaccc gtgtccaccg 120
W--> 188 gcgcagtcac ngtgaaagca cttgaccatg atcccagacg gtgccgtcat ccgcgcggac 180
W--> 189 ccacancgtn tccgcgcccg accggattga tagctcagcg acaccagctg ggctgccgtg 240
W--> 190 acgtanttgt gctggttngg tgcaagtgcc accccgctca agacaaantg gccgcacctg 300
W--> 191 tgcccgtgtc ccaaacgtca tattgggtcg cagcactgtc gaacggatca ctgtangtgc 360
W--> 192 acagcgacna anccgcatan ctctngccgt ggggcgcaac gatgttnnac accgtctcaa 420
W--> 193 cgggtaccgt gtcnagggga ncatttacng ggaaagcatt cgaccactcc cccacaccgt 480
W--> 194 gcccgcattt gcgccgattc ctttcattga tatgtccacg tcggtnggnc tttaagcngg 540
W--> 195 cggcaaccgc ggtgnagctn cacttttgt tccttttatt ganggttaat ttgcgcgctt 600
W--> 196 tggncgtaan tntttngaan 620

198 <210> SEQ ID NO: 10
199 <211> LENGTH: 662
200 <212> TYPE: DNA
201 <213> ORGANISM: Homosapiens
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (0)...(0)
206 <223> OTHER INFORMATION: N=A,T,C or G
208 <400> SEQUENCE: 10

209 gatccgacca gcaatcaggc ggagctgcag cacctgaaaa acgaccttct ctcggcactg 60
210 ctgggtattt cacgcaaccg ctctgcgctt ggcgggaaac accgacgcgc ttgaaggctt 120
211 accggacgac acgccgccag ccttgattcg aatgcatctg gagtacttgc gcagtcagga 180
212 ttccgagcag cgcgccaagc tgtccgaact ggatcagcaa cgggtgcaga aggtcgcgga 240
W--> 213 gaccaggacg atcgacgcca gcatcgcgaa gattgaagct ttgctgcggt gctgcaggan 300
214 cgggtcgggg ttcgcaagta cctggcggac agggagtacg gctcaaagct gcaatattcg 360
215 caggaactcc aggaactggt cgggatgcag caggacatcc tggtgcaacg gagcaaagct 420
W--> 216 cgaggaaacc aatgcggntt gtcgccgcac ttcgacgaaa acccgcggna agcttcgtct 480
W--> 217 nngaataacc ggcacccgnc tgttccnacg atcttggccc aaggggacgc aaaaaagggc 540
W--> 218 cggcaagncc tcaaaggacc aagggngttt taaaanccga gcacccggga cccaaccttt 600
W--> 219 aaaaancntt ggcggccccc attcgacggn gtggnggcaa caaattgggc cgngccccat 660
220 tt 662

222 <210> SEQ ID NO: 11
223 <211> LENGTH: 242
224 <212> TYPE: DNA
225 <213> ORGANISM: Homosapiens
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (0)...(0)
230 <223> OTHER INFORMATION: N=A,T,C or G
232 <400> SEQUENCE: 11

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/484,577A

DATE: 02/13/2001
TIME: 14:31:57

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

W--> 233 actctcnngc ctctcaccga agatagccgg caaggactgg cgngaacann gcgcgctgga 60
W--> 234 ctatcnctaa agggtctccn acnacgtcca nccggacnag ctgacctcgt ttccncnaag 120
W--> 235 cgtgaaactg aaggccggtg aaaccntcnt gttcgcctng atcacctact agtcgcgcgc 180
W--> 236 cnngcgcgac aggatcaacg ccaaggtgat ggccgatccc cgcctggcgt cgtcgatgga 240
237 tc 242

239 <210> SEQ ID NO: 12
240 <211> LENGTH: 552
241 <212> TYPE: DNA
242 <213> ORGANISM: Homosapiens
244 <400> SEQUENCE: 12
245 gatccgctcg atgcccaggc ccagtacagc gaactgttcg cccatggccg cgccacgtca 60
246 ctgttgctat tcgaacatgt tcacggtgaa tcccgtgacc gcggccaggc gatggtggac 120
247 ctgctggcgc agtacgagca gcacggtttg cagttaaaca gccgcgaatt accggaccac 180
248 ctgccgctgt atctggagta cctgtcgcag ctgccgcaag gcgaagccgt ggaaggtttg 240
249 aaagatatcg cgccgattct ggcattgctg agcgcgcgtc tgcaacagcg tgaaagccgt 300
250 tatgccgtga tgtttgatct gctgctgaaa ttggccgata ccgctatcga cagcgacaaa 360
251 gtggcggaaa aaattgccga cgaagcgcgc gatgatacgc cgcaggcgct ggatgctgtt 420
252 tgggaagaag agcaggttaa attctttgct gacaaaggct gcggcgattc agcaatcact 480
253 gctcatcagc gtcgctttgc cggtgccgtc gcgccgcaat atctgaatat cctcggtgag 540
254 aggctggaga gt 552

256 <210> SEQ ID NO: 13
257 <211> LENGTH: 265
258 <212> TYPE: DNA
259 <213> ORGANISM: Homosapiens
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (0)...(0)
264 <223> OTHER INFORMATION: N=A,T,C or G
266 <400> SEQUENCE: 13
W--> 267 gatcctnaca cantagcccg tggacgcatt tgcgtcgacc ctcatangga agcgatacga 60
W--> 268 ggcgggtnaa agtgaacatc cgccgagcac ggcagcgacg cctccgctca ccgtcngcgc 120
W--> 269 agtacttcct cgggtcgccg cgcctagcac tctgcgccgt gacatcaanc cgtgaaccca 180
W--> 270 cgggagactt tgcgccgcna agggatgagt ccactattag atgacgcatg gctacgagcc 240
W--> 271 natcctcggt ganaagctgg agagt 265

273 <210> SEQ ID NO: 14
274 <211> LENGTH: 317
275 <212> TYPE: DNA
276 <213> ORGANISM: Homosapiens
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (0)...(0)
281 <223> OTHER INFORMATION: N=A,T,C or G
283 <400> SEQUENCE: 14
W--> 284 gatccggccn cgcacganct taccggtnaa aacttccncn ccnataatat ttgccgcgcg 60
W--> 285 agccgccctg angctctcgg cgtaactccg gatgcacggg ggaccgtgac ggttgtantg 120
W--> 286 ccctggcttt tctcagcnga aatctgcaca gccatcttcc gatcgatctg gcgcaggtgg 180
W--> 287 ggcggcncaa aacggtgggc atctccaaac cgcaggaacg tgttttgcag gatgtcgaac 240
W--> 288 atcatccacg cttcggtncc caacggctac ttcgcccggt accgggccat gtcatcctcg 300
W--> 289 gtganaagct gganant 317

FYI:

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/484,577A

DATE: 02/13/2001
TIME: 14:31:58

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:340 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:340 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
L:340 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:342 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:342 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
M:340 Repeated in SeqNo=17
L:343 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:343 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
L:344 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:344 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/484,577A

DATE: 02/13/2001
TIME: 14:31:58

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

L:345 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:345 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
L:346 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17
L:346 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17
L:363 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18
L:363 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18
L:363 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
L:364 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18
L:364 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18
M:340 Repeated in SeqNo=18
L:365 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18
L:365 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:446 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:446 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:446 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
L:450 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:450 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
M:340 Repeated in SeqNo=20
L:452 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:452 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:454 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:454 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:456 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:456 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:460 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:460 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:462 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:462 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:464 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:464 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:466 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:466 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:468 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:468 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:470 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:470 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:552 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22

VERIFICATION SUMMARY DATE: 02/13/2001
PATENT APPLICATION: US/09/484,577A TIME: 14:31:58

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

L:552 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:552 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22
L:556 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:556 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
M:340 Repeated in SeqNo=22
L:558 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:558 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:560 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:560 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:562 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:562 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:657 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24
M:340 Repeated in SeqNo=24
L:697 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25
M:340 Repeated in SeqNo=25
L:722 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:26
M:340 Repeated in SeqNo=26
L:762 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27
M:340 Repeated in SeqNo=27
L:802 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28
M:340 Repeated in SeqNo=28
L:923 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:30
M:340 Repeated in SeqNo=30
L:1034 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
M:340 Repeated in SeqNo=32
L:1145 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:34
M:340 Repeated in SeqNo=34
L:1175 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35
M:340 Repeated in SeqNo=35
L:1201 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
M:340 Repeated in SeqNo=36
L:1243 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37
M:340 Repeated in SeqNo=37
L:1285 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:38
M:340 Repeated in SeqNo=38
L:1357 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:40
M:340 Repeated in SeqNo=40
L:1408 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:42
M:340 Repeated in SeqNo=42
L:1459 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:44
M:340 Repeated in SeqNo=44
L:1481 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:45
M:340 Repeated in SeqNo=45
L:1501 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46
M:340 Repeated in SeqNo=46
L:1523 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:47
M:340 Repeated in SeqNo=47
L:1545 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:48
M:340 Repeated in SeqNo=48

VERIFICATION SUMMARY DATE: 02/13/2001
PATENT APPLICATION: US/09/484,577A TIME: 14:31:58

Input Set : A:\029001.txt
Output Set: N:\CRF3\02132001\I484577A.raw

L:2021 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60
M:340 Repeated in SeqNo=60
L:2084 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62
M:340 Repeated in SeqNo=62

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/319,860A

DATE: 02/13/2001
TIME: 14:30:41

Input Set : A:\09-31981.app
Output Set: N:\CRF3\02132001\I319860A.raw

<110> APPLICANT: Grant, Peter J

<120> TITLE OF INVENTION: Atherothrombotic Disorders: Mutation in the Factor XIII Gene

<130> FILE REFERENCE: Sequence Listing SN 09/319,860

<140> CURRENT APPLICATION NUMBER: 09/319,860A

<141> CURRENT FILING DATE: 1999-06-11

<150> PRIOR APPLICATION NUMBER: PCT/GB97/03435

<151> PRIOR FILING DATE: 1997-12-12

<150> PRIOR APPLICATION NUMBER: GB 9625934.6

<151> PRIOR FILING DATE: 1996-12-13

<160> NUMBER OF SEQ ID NOS: 3

<170> SOFTWARE: PatentIn Ver. 2.1

<210> SEQ ID NO: 1

<211> LENGTH: 19

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer sequence

<400> SEQUENCE: 1

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<210> SEQ ID NO: 2

<211> LENGTH: 23

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<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer sequence

<400> SEQUENCE: 2

gaccttgtaa agtcaaaaat gtc 23

<210> SEQ ID NO: 3

<211> LENGTH: 129

<212> TYPE: DNA

<213> ORGANISM: Homo sapiens

<220> FEATURE:

<221> NAME/KEY: exon

<222> LOCATION: (1)..(42)

<223> OTHER INFORMATION: exon 2 of Factor XIIIa

<400> SEQUENCE: 3

atgtcagaaa cttccaggac cgcctttgga ggcagaagag cagttccacc caataactct 60

aatgcagcgg aagatgacct gcccacagtg gagcttcagg gcgtggtgcc ccggggcgtc 120

aacctgcaa 129

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/319,860A

DATE: 02/13/2001
TIME: 14:30:42

Input Set : A:\09-31981.app
Output Set: N:\CRF3\02132001\I319860A.raw